56289

CONTENTS OF VOLUME LII.

No. 1. May, 1922.

DENIS, W., and VON MEYSENBUG, L. Note on a possible source of error in the Bell-Doisy method for the determination of phosphates in blood plasma 1
ATKINSON, HARRY V., and ETS, HAROLD N. Chemical changes of the blood under the influence of drugs. I. Ether 5
BEHRE, JEANETTE ALLEN, and BENEDICT, STANLEY R. Studies in creatine and creatinine metabolism. IV. On the question of the occurrence of creatinine and creatine in blood 11
SHEAFF, HOWARD M. A method for the quantitative estimation of minute amounts of gaseous oxygen and its application to respiratory air 35
HOWE, PAUL E. The differential precipitation of the proteins of colostrum and a method for the determination of the proteins in colostrum 51
ANDERSON, R. J., and KULP, W. L. A study of the metabolism and respiratory exchange in poultry during vitamine starvation and polyneuritis 69
SWOBODA, FREDERICK K. Nitrogen nutrition of yeast 91
GERARD, R. W. Chemical studies on intestinal intoxication. I. The presence and significance of histamine in an obstructed bowel. 111
BLATHERWICK, N. R., and LONG, M. LOUISA. The utilization of calcium and phosphorus of vegetables by man 125
KAI, SOTARO. A method of quantitative determination of trypsin. A modification of Gross' method 133
GREENE, CHARLES W., and GREENE, CARL H. The partial pressure of oxygen in the blood during progressively induced anoxemia 137
CLARK, GEORGE L., and MANN, WILLIAM A. A quantitative study of the adsorption in solution and at interfaces of sugars, dextrin, starch, gum arabic, and egg albumin, and the mechanism of their action as emulsifying agents 157
DAKIN, H. D. The action of muscle tissue on fumaric, maleic, glutaconic, and malic acids 183
BLOOR, W. R., PELKAN, K. F., and ALLEN, D. M. Determination of fatty acids (and cholesterol) in small amounts of blood plasma ... 191
WOLF, C. G. L. Some human digestion experiments with raw white of egg 207

XUM

JONES, D. BREESE, FINKS, A. J., and WATERMAN, H. C. A note on the nutritional adequacy of the proteins of the Chinese and Georgia velvet beans with reference to amino-acid composition..... 209
HAMMETT, F. S., and ADAMS, E. T. A colorimetric method for the determination of small amounts of magnesium..... 211
KAHLENBERG, LOUIS. On some new color reactions of cholesterol.... 217
LEVENE, P. A., and TAYLOR, F. A. The synthesis of α-hydroxyisopentacosanic acid and its bearing on the structure of cerebronic acid. 227
HART, E. B., STEENBOCK, H., and LEPKOVSKY, S. The antiscorbutic vitamine. I. A study of its solubility from desiccated orange juice..... 241
LANGWORTHY, C. F., and DEUEL, HARRY J., JR. Digestibility of raw rice, arrowroot, canna, cassava, taro, tree-fern, and potato starches..... 251
CLAUSEN, S. W. A method for the determination of small amounts of lactic acid..... 263
FORBES, E. B., SCHULZ, J. A., HUNT, C. H., WINTER, A. R., and REMLER, R. F. The mineral metabolism of the milch cow..... 281
PUCHER, GEORGE W. Studies on uric acid. I. Examination of the variables in the Folin and Wu uric acid method..... 317
PUCHER, GEORGE W. Studies on uric acid. II. A modification of the Folin and Wu uric acid method..... 329
JOHNS, CARL O., CHERNOFF, LEWIS H., and VIEHOEVER, ARNO. A saponin from *Agave lechuguilla* Torrey..... 335

No. 2. June, 1922.

BRIGGS, A. P. A colorimetric method for the determination of small amounts of magnesium..... 349
JONES, D. BREESE, and WATERMAN, HENRY C. Studies on the digestibility of proteins *in vitro*. III. On the chemical nature of the nutritional deficiencies of arachin..... 357
HENLEY, R. R. The determination of globulins in blood serum..... 367
LUNDSGAARD, CHRISTEN, and MÖLLER, EGGERT. On the determination of the total oxygen-combining power of the blood in the Van Slyke apparatus..... 377
HART, E. B., HALPIN, J. G., and STEENBOCK, H. The nutritional requirements of baby chicks. II. Further study of leg weakness in chickens..... 379
BENEDICT, STANLEY R., and FRANKE, ELIZABETH. A method for the direct determination of uric acid in urine..... 387
WILDER, RUSSELL M., and WINTER, MALCOLM D. The threshold of ketogenesis..... 393
FINKS, A. J., JONES, D. BREESE, and JOHNS, CARL O. The rôle of cystine in the dietary properties of the proteins of the cow-pea, *Vigna sinensis*, and of the field pea, *Pisum sativum*..... 403

DENIS, W. The determination of magnesium in blood, plasma, and serum 411
MITCHELL, H. H., NEVENS, W. B., and KENDALL, F. E. The relation between the endogenous catabolism and the non-protein constituents of the tissues 417
KREMERS, ROLAND E. The volatile oil of *Mentha aquatica* Linné, and a note on the occurrence of pulegone 439
ROBINSON, C. S. The hydrogen ion concentration of human feces .. 445
BRADLEY, H. C. Studies of autolysis. VIII. The nature of autolytic enzymes 467
LEVENE, P. A., and MIKESKA, L. A. On a possible asymmetry of aliphatic diazo compounds. II 485
VAN SLYKE, DONALD D. Studies of acidosis. XVIII. Determination of the bicarbonate concentration of the blood and plasma 495
CULLEN, GLENN E. Studies of acidosis. XIX. The colorimetric determination of the hydrogen ion concentration of blood plasma. 501
CULLEN, GLENN E., and HASTINGS, A. BAIRD. A comparison of colorimetric and electrometric determinations of hydrogen ion concentrations in solutions containing carbon dioxide 517
CULLEN, GLENN E. A modification of the Clark hydrogen electrode vessel to permit accurate temperature control 521
VAN SLYKE, DONALD D. On the measurement of buffer values and on the relationship of buffer value to the dissociation constant of the buffer and the concentration and reaction of the buffer solution. 525
Index to Volume LII 571

XUM